

AMENDMENTS TO THE SPECIFICATION:

Please amend the paragraph beginning at page 1, line 4, as follows:

DESCRIPTION OF THE RELATED ART BACKGROUND

Please amend the paragraph beginning at page 1, line 5, as follows:

The demand for high speed telecommunications transmission has grown rapidly in later years. ~~I~~ In order to provide such high speed telecommunications transmission, wide bandwidths including high frequencies are being used. Ordinary copper wires, originally intended for analogue telephony, are upgraded to Digital Subscriber Lines DSL, using various transmission techniques. The analogue bandwidth of about 4kHz, is often increased to several MHz. However, the handling of high bandwidths puts several requirements on the transmission equipment in terms of frequency response, linearity, distortion, noise etc and especially power consumption.

Please amend the paragraph beginning at page 3, line 1, as follows:

SUMMARY OF THE INVENTION

Please amend the paragraph beginning at page 4, line 1, as follows:

~~In some more details the~~ The solution includes loop coupling a switching stage with a self oscillating modulator, the latter generating a carrier signal. An incoming signal modulates the carrier and is fed to the switching stage, where it is amplified. The amplified signal is filtered and fed to a load and also loop coupled to the transmitter input. The output impedance is adjusted to a finite value so that it can serve as a termination for a far end transmitter.

Please amend the paragraph beginning at page 4, line 19 as follows:

The invention will now be described more in detail with the aid of ~~preferred~~ preferred embodiments in connection with enclosed figures.

Please amend the paragraph beginning at page 5, line 11 as follows:

DETAILED DESCRIPTION OF EMBODIMENTS

Please amend the paragraph beginning at page 7, line 3 as follows:

The technology of the present transmitter can also be used for high-speed transmission over CATV networks. In this case the transmission media can be a coaxial copper line. It is also possible to use optical fiber as a transmission media, and it is foreseen that even wireless transmission media, in the ~~frequency~~ frequency range of the order of 1 GHz, can be utilized. However, currently it might be ~~problems in reaching~~ problematic to reach the required efficiency in the radio frequency range due to the current state of ~~the~~ semiconductor technology.

Please amend the paragraph beginning at page 11, line 6 as follows:

The first outer feedback loop 66 is a normal negative feedback to get good performance of the transmitter. The linearity will be improved, distortion is reduced and the frequency stability, i.e. a common amplification in all the frequency band, will also be improved. The second outer feedback loop 69 is utilised to keep the output impedance at a welldefined value of a predetermined magnitude. A current I1 through the sense resistor 68 gives rise to a voltage which is sensed and the sensed value is utilised to keep the output at an impedance of 100 ohm in the ~~embodiment~~ embodiment. It is essential that the output impedance keeps its welldefined value since a varying output impedance will influence the incoming signal S3 from a far end transmitter and ~~deteriorate~~ deteriorate the reception in the receiver 6.